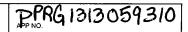
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ENGINEER PRI

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

Т	HIS CHECKLIST IS MA	NDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	[DHC-Down [PC-Poo 	
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D]	Other: Specify
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE TION INDICATED ABOVE.
[4] approv		TON: I hereby certify that the information submitted with this application for administrative d complete to the best of my knowledge. I also understand that no action will be taken on this

application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

John Austin Akers	- /	T.	VP of Land	04/01/2013
Print or Type Name	Signature		Title	Date
			aakers@logosresour	cesllc.com
			e-mail Address	

District I 1625 N. French Drive, Hobbs, NM 88240

District II 811 S. First St., Artesia, NM 88210

District III

nd, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised August 1, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE Single Well Establish Pre-Approved Pools EXISTING WELLBORE Yes ______No

APPLICATION FOR DOWNHOLE COMMINGLING

Logos Operating, LLC

#6

Well No.

4001 N. Butler, Bldg 7101 Farmington, NM 87401

Address Unit Letter G, Section 8, T23N, R8W

Operator Logos Lease

San Juan

Unit Letter-Section-Township-Range

County

OGRID No. 289408 Property Code 311963 API No. 30-045-35422 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Nageezi Gallup		Basin Dakota
Pool Code	47540	· · · ·	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5108' - 5982'		5996'
Method of Production (Flowing or Artificial Lift)	Pumping		Pumping
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Est. 1600 psi		Est. 2700 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	Est. Oil Gravity 42		Est. Oil Gravity 42
Producing, Shut-In or New Zone	New Zone		New Zone
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Rates: Est. 60 bopd, Est. 160 mcfd		Rates: Est. 5 bopd, Est. 20 mcfd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	The allocation of produced volumes will be based on flowback results and production data from the Logos 1, 2, 3, and Logos 5.		The allocation of produced volumes will be based on flowback results and production data from the Logos 1, 2, 3, and Logos 5.

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes Yes	_X	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes	_X	No
Will commingling decrease the value of production?	Yes		No_X
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes	_x	No

NMOCD Reference Case No. applicable to this well: DHC-4605-0

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.

Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
List of other orders approving downhole commingling within the proposed	Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools	
Proof that all operators within the proposed Pre-Approved Pools were provi	ded notice of this application.
Bottomhole pressure data.	· ·
I hereby certify that the information above is rue and complete to the	e best of my knowledge and belief.
SIGNATURE how find from the second se	
TYPE OR PRINT NAME John Austin Akers	TELEPHONE NO. (_303) _550-1877
E-MAIL ADDRESSaakers@logosresourcesllc.com	



4001 N. Butler Ave Farmington, NM 87401 Phone: (505) 215-8215 Fax: (303) 974-1767

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Date: April 1, 2013

To: NMOCD

Re: Logos # 6 – Downhole Commingle Allocation

Dear NMOCD,

Logos Operating, LLC (OGRID 289408) proposes to downhole commingle the Logos #6 (API 30-045-35422) Basin Dakota and Nageezi Gallup formations. The Logos #6 commingle proposal is based on the success obtained in the Logos #2 (API 30-043-21120) and Logos #1 (API 30-043-21119) which were commingled in the Dakota, Gallup, and Mesa Verde.

The allocation formula will be based on results obtained from the flowback operations after completion. The allocation will be adjusted approximately 6 months after completion which will allow sufficient time for the frac fluid to be recovered.

Logos Operating recommends using the flowback data and future swab data to create the allocations rather than using offset production data. There is no close Dakota production in the region to base allocations on. The Logos #1 and Logos #2 offset wells do not have sufficient production data to use as allocation references. The Logos #1 and Logos #2 allocation formulas have been approved to use flowback results and swab results for the allocation percentages; therefore, Logos Operating recommends using the same allocation methodology for Logos #6.

Regards,

John Austin Akers Vice President of Land

District I 1625 N. French Dr., Hr.bbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

Phone: (575) 748-1283 Far: (575) 748-972 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

811 S. First St., Artesia, NM 88210

District II

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

District IV 1220 S. St. Francis Dr 29 July FMAN 8750 P 12: 37 Phone: (505) 476-3460 Fax: (505) 476-3462

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OCD

WELL LOCATION AND ACREAGE DEDICATION PLAT

1.	API Number	r		² Pool Code		³ Pool Name				
3	0-045-35423			71599		Basin Dakota				
⁴ Property	Code				⁵ Property N	lame	6 V	Vell Number		
311963				Logos 6						
⁷ OGRID	No.		⁸ Operator Name ⁹ Elevation							
289408	•				Logos Operating, LLC 6,867'					
					¹⁰ Surface I	Location				
UL or let no.	Section	Township	, Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	8	23N	8W		1662	North	1973	East	San Juan	
		I	" Bot	ttom Hol	e Location If	Different Fron	n Surface			
UL or løt no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
¹² Dedicated Acre 320	s ¹³ Joint o	r Infill ¹⁴ C	Consolidation (Code 15 Ord	der No.		L			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16			¹⁷ OPERATOR CERTIFICATION
			I hereby certify that the information contained herein is true and complete
	· ·		to the best of my knowledge and belief, and that this organization either
	κ.	1662'	owns a working interest or unleased mineral interest in the land including
			the proposed bottom hole location or has a right to drill this well at this
			location pursuant to a contract with an owner of such a mineral or working
			interest, or to a voluntary pooling agreement or a compulsory pooling
		·	order heretofore entered by the division.
			4/1/2013
		★	Signature Date
			1
		1973'	John Austin Akers- VP of Land Printed Name
	,	۵ الاست	
			aakers@logosresourcesllc.com
			E-mail Address
			*SURVEYOR CERTIFICATION
			• I hereby certify that the well location shown on this
			plat was plotted from field notes of actual surveys
			made by me or under my supervision, and that the
			same is true and correct to the best of my belief.
			Date of Survey
			Signature and Seal of Professional Surveyor:
			NOTE: THIS C-102 USES THE EXACT FOOTAGES FROM
			THE C-102 FILED COMPLETED BY DAVID RUSSELL ON
			OCTOBER 1, 2012. CERTIFICATE NO. 10201
			Certificate Number

District 1 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico
Phone: (575) 393-6161 Fax: (575) 393-0720 District II	Energy, Minerals & Natural Resources Department
Bill S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720	OIL CONSERVATION DIVISION
Distant III	1220 South St. Francis Dr.
1000 Rio Brazos Road, Aztec, NM 87440 Phone: (505) 334-6178 Fax: (505) 334-6120	VFD () () Santa Fe, NM 87505
1220 S. St. Francis Dr., Santa Fe, NM 87505	
Phone: (505) 476-3460 Fax: (505) 476-3462	

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Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

		MAYWELE	QCATION	AND A	CREAGE	DEDICA	TION F	LAT
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1 A	API Number	r		² Pool Code		³ Pool Name				
3	0-045-35423			47540		Nageezi Gallup				
⁴ Property (•	⁵ Property Name ⁶ Well N					Well Number		
311963 Logos							₩6			
⁷ OGRID !	No.				⁸ Operator 1	Name			⁹ Elevation	
289408					Logos Operatii	ng, LLC			6,867'	
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	8	23N	8W		1662	North	. 1973	East	San Juan	
			" Bo	ttom Hol	le Location If	Different Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
¹² Dedicated Acres 40	, ¹³ Joint of	r Infill ¹⁴ C	onsolidation	Code ¹⁵ Or	der No.		;;	L		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	 · · · · · · · · · · · · · · · · · · ·		
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		I	the proposed bottom hole location or has a right to drill this well at this
			location pursuant to a contract with an owner of such a mineral or working
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			order heretofore entired by the division.
			T- 4/1/2013
	+		Skinature Date
		[]	1
		1973'	John Austin Akers- VP of Land Printed Name
			aakers@logosresourcesllc.com
			E-mail Address
			*SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this
			plat was plotted from field notes of actual surveys
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			same is true and correct to the best of my belief.
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			Signature and Seal of Professional Surveyor:
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			THE C-102 FILED COMPLETED BY DAVID RUSSELL ON
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